

12th Quarterly Report (Public)

Date of Report: December 15, 2016

Contract Number: **DTPH5614H00004**

Prepared for: US DOT – PHMSA

Project Title: Improving Models to Consider Complex Loadings, Operations Considerations, and Interactive Threats

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Objective: Some pipeline failures suggest that interactions of resident conditions with changing operations or environments may increase the probability of failure, reduce the failure stress, change the mode of failure from a leak to a rupture, cause development of a condition not detectable by assessment methods in use, or cause the shift of a condition from stable to unstable. The objective of this project is to develop guidance for pipeline operators in the form of advanced interaction matrices, decision processes.

Results and Conclusions:

Task III.B.2 has been finalized and a reviewed final report has been submitted.

Plans for Future Activity:

The proposed schedule for 1Q17 is as follows:

- III.C.1 - Write paper for publication